

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number
WO 2004/037282 A1

- (51) International Patent Classification⁷: **A61K 38/44**, G01N 33/574
- (21) International Application Number: PCT/SE2003/001652
- (22) International Filing Date: 24 October 2003 (24.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0203137-5 24 October 2002 (24.10.2002) SE
60/420,787 24 October 2002 (24.10.2002) US
- (71) Applicant (for all designated States except US):
KAROLINSKA INNOVATIONS AB [SE/SE]; S-171 77 STOCKHOLM (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ✓ **INGEL-MAN-SUNDBERG, Magnus** [SE/SE]; Soltorpsvägen 28, S-182 33 DANDERYD (SE). **KARLGREN, Maria** [SE/SE]; Gustav III:s Boulevard 4/507, S-169 72 SOLNA (SE). **GOMEZ, Alvin** [SE/SE]; Jägargatan 20, S-118 67 STOCKHOLM (SE).
- (74) Agent: **DR LUDWIG BRANN PATENTBYRÅ AB**; Maria Skolgata 83, P.O. Box 171 92, S-104 62 STOCKHOLM (SE).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declaration under Rule 4.17:**
— of inventorship (Rule 4.17(iv)) for US only
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **THE USE OF CYTOCHROME P450 ENZYME CYP2W1 AS A DRUG TRAGET FOR CANCER THERAPY**

(57) Abstract: The present invention relates to a novel drug target in cancer therapy. More closely it relates to use of the cytochrome P450 enzyme CYP2W1 and its promoter as a drug target for cancer therapy. It also relates to screening methods for obtaining therapeutic agents for cancer therapy and to therapeutic agents comprising moieties showing binding affinity for CYP2W1 and moieties with cytotoxic/anti-cancer effect.



WO 2004/037282 A1